

## WHAT IS CLAIMED IS:

- 1                   1.     A method comprising:  
2                   forming a Web service message at a first network entity, the Web service  
3     message targeted for a mobile terminal;  
4                   directing a request to a locator arrangement to assist in processing the Web  
5     service message;  
6                   sending the Web service message to the mobile terminal utilizing the  
7     locator arrangement, the Web service message sent to the mobile terminal using a mobile  
8     services transport protocol; and  
9                   processing the Web service message at the mobile terminal.
- 1                   2.     The method according to Claim 1, wherein the Web service message  
2     includes a Simple Object Access Protocol (SOAP) message.
- 1                   3.     The method according to Claim 1, wherein the mobile services  
2     transport protocol comprises a Hypertext Transfer Protocol (HTTP).
- 1                   4.     The method according to Claim 1, wherein the mobile services  
2     transport protocol comprises a Session Initiation Protocol (SIP).
- 1                   5.     The method according to Claim 1, wherein the mobile services  
2     transport protocol comprises a Simple Mail Transport Protocol (SMTP).
- 1                   6.     The method according to Claim 1, further comprising registering a  
2     web service of the mobile terminal with the locator arrangement.
- 1                   7.     The method according to Claim 6, wherein sending the Web service  
2     message to the mobile terminal utilizing the locator arrangement comprises determining an  
3     address of the mobile terminal based the registration of the mobile terminal with the  
4     locator arrangement.

1                   8.     The method according to Claim 1, wherein sending the Web service  
2 message to the mobile terminal utilizing the locator arrangement comprises determining an  
3 address of the mobile terminal based on an identifier of the mobile terminal included in the  
4 Web service message.

1                   9.     The method according to Claim 1, wherein sending the Web service  
2 message to the mobile terminal utilizing the locator arrangement comprises determining an  
3 address of the mobile terminal based on a Universal Resource Identifier (URI) associated  
4 with the locator arrangement.

1                   10.    The method according to Claim 1, wherein directing the request to  
2 the locator arrangement for processing the Web service message comprises directing the  
3 Web service message to the locator arrangement, and wherein sending the Web service  
4 message to the mobile terminal utilizing the locator arrangement comprises sending the  
5 Web service message via the locator arrangement to the locator terminal.

1                   11.    The method according to Claim 10, wherein sending the Web  
2 service message via the locator arrangement to the mobile terminal comprises initiating a  
3 session between the locator arrangement and the mobile terminal using a Wireless  
4 Application Protocol Over The Air Push.

1                   12.    The method according to Claim 1, wherein directing the request to  
2 the locator arrangement for processing the Web service message comprises requesting an  
3 address of the mobile terminal from the locator arrangement, and wherein sending the Web  
4 service message to the mobile terminal utilizing the locator arrangement comprises sending  
5 the Web service message to the mobile terminal using the address of the mobile terminal  
6 provided from the locator arrangement.

1                    13.    A system for providing Web services from a mobile terminal,  
2    comprising:  
3                    means for receiving a request for processing a Web services message via a  
4    network, the Web service message targeted for a mobile terminal;  
5                    means for determining a location of the mobile terminal based on the  
6    request;  
7                    means for sending the message to the mobile terminal using a mobile  
8    services transport protocol based on the location of the mobile terminal; and  
9                    means for processing the Web service request message at the mobile  
10   terminal.

1                    14.    The system according to Claim 13, wherein the Web service  
2    message includes a Simple Object Access Protocol (SOAP) message.

1                    15.    The system according to Claim 13, wherein the mobile services  
2    transport protocol comprises a Session Initiation Protocol (SIP).

1                    16.    The system according to claim 13, wherein the mobile services  
2    transport protocol comprises a Simple Mail Transport Protocol (SMTP).

1                    17.    The system according to claim 13, further comprising means for  
2    establishing a Wireless Application Protocol Over the Air Push session with the mobile  
3    terminal for sending the message to the mobile terminal.

1                    18.    The system according to Claim 13, further comprising:  
2                    means for forming a Web service response message at the mobile terminal  
3    in response to the Web service request message; and  
4                    means for transmitting the Web service response message from the mobile  
5    terminal using the mobile services transport protocol.

1                   19.     A mobile terminal wirelessly coupled to a network, comprising:  
2                   a transceiver configured to facilitate exchange of data with a locator  
3 arrangement via the network;  
4                   a memory capable of storing at least one of a mobile services transport  
5 module and a Web services processing module; and  
6                   a processor coupled to the memory and the transceiver, the processor  
7 configured by the mobile services transport module to receive Web service messages  
8 targeted for the mobile terminal via the locator arrangement using a mobile services  
9 transport protocol and communicate the Web service messages to the Web services  
10 processing module, the processor configured by the Web services processing module to  
11 process the Web service messages.

1                   20.     The mobile terminal according to Claim 19, wherein the Web  
2 service messages include Simple Object Access Protocol (SOAP) messages.

1                   21.     The mobile terminal according to Claim 19, wherein the mobile  
2 services transport protocol comprises a Session Initiation Protocol (SIP).

1                   22.     The mobile terminal according to Claim 19, wherein the mobile  
2 services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

1                   23.     A computer-readable medium having instructions stored thereon  
2 which are executable for providing Web services on a mobile terminal by performing steps  
3 comprising:  
4                   receiving a request from a locator arrangement to establish a data session  
5 using a mobile services transport protocol;  
6                   initiating the data session with the locator arrangement in response to the  
7 request;  
8                   receiving an incoming message formatted according to the mobile services  
9 transport protocol from via the data session;  
10                  forming a Web service message from the incoming message; and  
11                  processing the Web service message at the mobile terminal.

1                   24.     The computer readable medium according to Claim 23, wherein the  
2     Web service message includes a Simple Object Access Protocol (SOAP)message.

1                   25.     The computer readable medium according to Claim 23, wherein the  
2     mobile services transport protocol comprises a Session Initiation Protocol (SIP).

1                   26.     The computer readable medium according to Claim 23, wherein the  
2     mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

1                   27.     The computer readable medium according to Claim 23, wherein the  
2     data session comprises a Wireless Application Protocol Over the Air Push session.

1                   28.     A server arrangement coupled to a network and configured to  
2     facilitate communications with a wireless terminal, comprising:  
3                   means for receiving a Web service message targeted for the wireless  
4     terminal via the network;  
5                   means for initiating a data session with the wireless terminal; and  
6                   means for sending the Web service message to the wireless terminals via  
7     the data session using a mobile services transport protocol selected from a plurality of  
8     mobile services transport protocols.

1                   29.     The server arrangement according to Claim 28, wherein the Web  
2     service message includes a Simple Object Access Protocol (SOAP) message.

1                   30.     The server arrangement according to Claim 28, wherein the mobile  
2     services transport protocol comprises a Session Initiation Protocol (SIP).

1                   31.     The server arrangement according to Claim 28, wherein the mobile  
2     services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

1                   32.     The server arrangement according to Claim 28, wherein the data  
2     session comprises a Wireless Application Protocol Over the Air Push session.

1                   33.     The server arrangement according to Claim 28, further comprising:  
2                   means for receiving a Web service response message from the wireless  
3 terminal using the mobile services transport protocol; and  
4                   means for communicating the Web service response messages to an  
5 originator of the Web service message via the network.